UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450

NOTICE OF ALLOWANCE AND FEE(S) DUE

20736 7590 04/03/2008
MANELLI DENISON & SELTER
2000 M STREET NW SUITE 700
WASHINGTON. DC 20036-3307

EXAMINER

NGUYEN, KHANH TUAN

ART UNIT PAPER NUMBER

1706

DATE MAILED: 04/03/2008

ſ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/565.244	01/19/2006	Katsuichi Chiba	46449	9167

TITLE OF INVENTION: ELECTROCONDUCTIVE POWDER AND METHOD FOR PRODUCTION THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	07/03/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth tions	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of a) specifying a new corre	maintenance fees v spondence address	vill be ; and/o	mailed to the current r (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address			Fee	e(s) Transmittal. The sers. Each additions	is certi d paper	ficate cannot be used f	or domestic mailings of the for any other accompanying nt or formal drawing, must
2000 M STREE	7590 04/03 ENISON & SELTE T NW SUITE 700 I, DC 20036-3307			Ces	tificat	e of Mailing or Trans	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
							(Depositor's name)
			<u> </u>				(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	₹	ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/565,244	01/19/2006	WE DOWNER AND ME	Katsuichi Chiba	or There or		46449	9167
			ETHOD FOR PRODUCT			ı	
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0		\$1740	07/03/2008
EXAM		ART UNIT	CLASS-SUBCLASS	J			
NGUYEN, KI		1796	252-520100 2. For printing on the				
1. Change of correspondence address or indication of Tee Address" (77 CFR 1.853). Change of correspondence address (or Change of Correspondence Address form PT0/SB/122) attached. Fiee Address' indication (or Tee Address' Indication form PT0/SB/122) attached. FIFO/SB/17 Rev 0.050 C or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON			or agents OR, alternat (2) the name of a sing registered attorney or 2 registered patent att listed, no name will be THE PATENT (print or ty	ee of a single firm (having as a member a 2- stormer of a spin of the property of the propert			
(A) NAME OF ASSI	GNEE	ified below, no assignee oletion of this form is NO categories (will not be pr	(B) RESIDENCE: (CIT	Y and STATE OR C	COUN	TRY)	ocument has been filed for our entity Government
4a. The following fee(s) are submitted: Issue Fee Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Copies Advance Order - # of Order - # of Copies Advance Order - # of Order - # of Copies Advance Order - # of Order					ficiency, or credit any		
	s SMALL ENTITY state	is. See 37 CFR 1.27.	b. Applicant is no lo				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than Office.	the applicant; a reg	istered	attorney or agent; or th	ne assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration N			
This collection of inform an application. Confiden submitting the completes this form and/or suggests Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but 'irginia 22313-1450. DC t13-1450.	FR 1.311. The informatis U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th ONOT SEND FEES OR	on is required to obtain or 1.14. This collection is educated the depending upon the indi- e Chief Information Offic COMPLETED FORMS T	retain a benefit by stimated to take 12 vidual case. Any co er, U.S. Patent and O THIS ADDRESS	the pub minute ommen Trader S. SEN	lic which is to file (and s to complete, including ts on the amount of timerk Office, U.S. Dep D TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

COMMISSIONER FOR PATENTS P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

APPLICATION NO.	D. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/565,244	01/19/2006	Katsuichi Chiba	46449 9167			
20736 75	20736 7590 04/03/2008		EXAMINER			
MANELLI DEN	ISON & SELTER	NGUYEN, KHANH TUAN				
2000 M STREET I		ART UNIT PAPER NUMBER				
WASHINGTON, I	OC 20036-3307	1796				

DATE MAILED: 04/03/2008

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 59 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 59 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/565,244	CHIBA ET AL.	
Examiner	Art Unit	
ZUANU T NGUVEN	1706	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 01/22/2008.
- 2. The allowed claim(s) is/are 5-11.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☑ All b) ☐ Some* c) ☐ None of the:
 - 1. \(\subseteq \text{ Certified copies of the priority documents have been received.} \)
 - Certified copies of the priority documents have been received in Application No.
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date _____
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🔲 Other _____.

/Mark Kopec/ Primary Examiner, Art Unit 1796

Page 2

Application/Control Number: 10/565,244

Art Unit: 1796

DETAILED ACTION

Response to Amendment

 The amendment filed on 01/22/2008 is entered and acknowledged by the Examiner. Claim 5 and newly added claims 6-11 are currently pending in the instant application. Claims 1-4 have been canceled.

Examiner's Statement of Reason for Allowance

- 2. Claims 5-11 are allowed over the prior art of record.
- The following is an examiner's statement of reasons for allowance: The claims, filed on 01/22/2008 have been carefully reviewed and searched. The best new prior arts Yoshizumi (U.S. Pat. 4,452,830), Ando et al. (JP Pub. 04-154621) and Walsh et al. (U.S. Pat. 3,522,078).

Yoshizumi teaches a method for producing an electroconductive powder having a specific surface area ranging from 3 to 7 m^2/g (Examples 1-11) wherein an solution of tin salt (SnCl₄) in an amount of 78 to 783 g/l (Col. 5, lines 52-64) and antimony salt in an amount of 0.085 to 410 g/l (SbCl₃) (Col. 5, line 65 to Col. 6, line 2) are dissolved in a solution containing hydrochloride acid (Col. 5, lines 31-51 and Col. 6, lines 33-40) and mixed with a separate aqueous dispersion of titanium dioxide (TiO₂) particles having a purity of 99% or higher (Col. 3, lines 48-57) to form a uniform coating layer of Sb-

Application/Control Number: 10/565,244

Art Unit: 1796

containing SnO₂ on the (TiO₂) particles (Col. 6, lines 9-21). Yoshizumi further teaches adding an alkaline substance into the solution to promote hydrolysis and control the coating thickness (Col. 6, lines 22-32). The Sb- SnO₂ doped (TiO₂) particles can be separated by common solid-liquid separation method such as filtration, then washed and dried in air at a temperature of 500°C for 2 hrs. (Col. 6, lines 44-50 and Col. 7, lines 59-62).

Ando et al. teaches a method of producing tin oxide coated titanium oxide particle having excellent conductivity wherein the coated titanium oxide product is recovered from an aqueous suspension by filtration, then washed, and heat-treated at 250 to 600°C in a non-oxidizing atmosphere (Abstract).

Walsh et al. teaches a titanium dioxide pigment coated with an inorganic substance (Col. 1, lines 12-17) by hydrolyzation to precipitate the coated titanium dioxide particles. The said particles are filtered, wash, and calcined at elevated temperature ranging from 750 to 1000°C (Col. 1, lines 21-33).

However, the references alone or in combination failed to suggest or disclose a coating of tin compound and phosphorus compound while maintaining a pH of the aqueous suspension in the range of 2-6 or 8-12 and firing at a temperature within the range of 600 to 925°C in an atmosphere of low oxygen concentration (i.e. 5-15 vol. %) that is defined at page 28 (lines 8-12) of the specification. Therefore, claims 5-11 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 10/565,244

Art Unit: 1796

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Withdrawn Rejection

4. The objection of claim 1 under 35 U.S.C. 112, 2nd paragraph, as being indefinite is withdrawn in light of Applicant's remark. The rejection of claims 1-3 and 5 under 35 U.S.C 103(a) as being unpatentable over Yoshizumi (U.S. Pat. 4,452,830) in view of Sakamoto et al. (U.S. Pat. 41880,703) is withdrawn in light of Applicant's amendment. The rejection of claims 1-3 and 5 under 35 U.S.C 103(a) as being unpatentable over Vogt (U.S. Pat. 61632,276) in view of Sakamoto et al. (U.S. Pat. 41880,703) is withdrawn in light of Applicant's amendment.

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHANH T. NGUYEN whose telephone number is (571)272-8082. The examiner can normally be reached on Monday-Friday 8:00-5:00 EST PM

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on (571) 272-1302. The fax phone Application/Control Number: 10/565,244

Art Unit: 1796

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mark Kopec/ Primary Examiner, Art Unit 1796

/KTN/ 03/17/2008